

Title (en)

CAPACITANCE DETECTION DEVICE AND OPTICAL WAVELENGTH-SELECTIVE FILTER DEVICE

Title (de)

KAPAZITÄTSERKENNUNGSVORRICHTUNG UND OPTISCHE WELLENLÄNGENSELEKTIVE FILTERVORRICHTUNG

Title (fr)

DISPOSITIF DE DÉTECTION DE CAPACITÉ ET DISPOSITIF DE FILTRE SÉLECTIF EN LONGUEUR D'ONDE OPTIQUE

Publication

**EP 3502718 B1 20231004 (EN)**

Application

**EP 16914138 A 20160822**

Priority

JP 2016074410 W 20160822

Abstract (en)

[origin: EP3502718A1] A capacitance detection apparatus is provided with: a parallel circuit in which a first series circuit and a second series circuit are connected in parallel, wherein a tested body and a first resistance element are connected at a first node in the first series circuit, and a reference capacitance element and a second resistance element are connected at a second node in the second series circuit; a power supply circuit configured to apply an alternating current voltage with a specific frequency to the parallel circuit; an inductor element connected between the first node and the second node and configured to increase a phase difference in the voltage with the specific frequency between the first and second nodes; and an output device configured to output an electric signal corresponding to a capacitance of the tested body on the basis of the phase difference.

IPC 8 full level

**G01R 27/26** (2006.01)

CPC (source: EP US)

**G01R 27/26** (2013.01 - EP US); **G01R 27/2605** (2013.01 - EP US); **G02B 5/284** (2013.01 - US)

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